IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A transmitting device for transmitting a digital information signal via a transmission medium,

includingsaid transmitting device comprising:

5

10

- input means for receiving the digital information signal au_{\perp}
- adaptive prediction filter means adapted to derive for deriving a prediction signal from the digital information signal in dependence on an array of prediction filter coefficients.
- first signal combination means for combining the digital information signal and said prediction signal so as to obtain a residual signal $\tau_{.i.}$
- encoding means for encoding said residual signal so as to obtain an encoded signal.
- coefficient generator means for generating an array of filter coefficients A[i] in response to the digital information signal, i being an integer for which it holds that $0 \le i < p$, where p is a variable.
- output means for supplying the encoded signal to an output terminal for transmission via the transmission medium,—, and
- smoothing means for smoothing the array of filter
 coefficients A[i] so as to obtain the array of prediction filter
 coefficients for supply to the adaptive prediction filter means...

- 2. (Cancelled).
- 3. (Currently Amended) The transmitting device of as claimed in claim 21, characterized in that the low-pass filtering means comprise comprises an FIR filter.
- 4. (Currently Amended) The transmitting device of as claimed claim #1, characterized in that the low-pass filtering means comprise comprises an IIR filter.
- 5. (Cancelled).

- 6. (Currently Amended) The transmitting device of as claimed in any one of the preceding claims, wherein said transmitting device further comprises:

 an arrangement for writing the encoded signal on a record carrier.
 - 7. (Currently Amended) A method of transmitting a digital information signal via a transmission medium, <u>said method</u> comprising the steps of:
 - receiving the digital information signal -- ...
 - deriving a prediction signal from the digital information signal in dependence on an array of prediction filter
 - combining the digital information signal and said prediction signal so as to obtain a residual signal r.
 - encoding said residual signal so as to obtain an encoded signal—:
 - generating an array of filter coefficients A[i] in response to the digital information signal, i being an integer for which it holds that $0 \le i < p$, where p is a variable.
 - supplying the encoded signal to an output terminal for transmission via the transmission medium and
 - smoothing the array of filter coefficients A[i] so as to obtain the array of prediction filter coefficients, wherein:

5

10

	the smoothing includes low-pass filtering the array of
20	filter coefficients A[i] so as to obtain the prediction filter
	<u>coefficients;</u>
	the low-pass filtering is selected between one or more of
	FIR filtering and IIR filtering;
	the low pass filtering applies the following equations to
25	obtain the prediction filter coefficients:
	<u> </u>
	Cout[i] = 0.25*Cin[i+1] + 0.5*Cin[i] + 0.25*Cout[i-1],
	whereby i is an integer and $1 \le i \le n-2$;
	Cout[n-1] = Cin[n-1], Cin[x] being coefficient number x
30	before smoothing, and Cout[x] being coefficient number x after
	<u>smoothing;</u>
	supplying the encoded signal includes writing the encoded
	signal on a record carrier.

- 8. (Cancelled).
- 9. (Cancelled).
- 10-12. (Cancelled).
- 13. (Currently Amended) A method of transmitting information via a transmission medium, <u>said method</u> comprising the steps of: receiving a digital information signal;

generating a plurality of filter coefficients in response 5 | to the digital information signal_{T,L}

smoothing the filter coefficients to obtain a plurality of prediction filter coefficients.

deriving a prediction signal from the digital information signal in dependence on the filter coefficients.

combining the digital information signal and the prediction signal to obtain a residual signal $\tau_{.i.}$

encoding said residual signal to obtain an encoded signal; and

supplying the encoded signal to the transmission medium, wherein said smoothing step comprises low-pass filtering of the filter coefficients to obtain the prediction filter coefficients, and wherein the low pass filtering step performs the following equations to obtain the coefficients:

Cout[0] = Cin[0];

Cout[i] = 0.25*Cin[i+1] + 0.5*Cin[i] + 0.25*Cout[i-1], whereby i is an integer and $1 \le i \le n-2$;

Cout[n-1]= Cin[n-1], Cin[x] being coefficient number x before smoothing, and Cout[x] being coefficient number x after smoothing.

14. (Cancelled).

10

15

- 15. (Currently Amended) The method as claimed in claim 1413, wherein the low-pass filtering step comprises an FIR filterfiltering.
- 16. (Currently Amended) The method as claimed in claim #413, wherein the low-pass filtering step comprises an IIR filterfiltering.
- 17. (Cancelled).
- 18. (Currently Amended) The method of as claimed in claim 4413, wherein said generating step comprises generating an array of filter coefficients, and said smoothing comprise step comprises smoothing the filter coefficients to obtain an array of prediction filter coefficients.